

BLAW-KNOX

ELECTROFORGED STEEL GRATING AND TREADS

7 WAYS BETTER!

ELECTROFORGED INTO ONE PIECE
EXCEPTIONAL STRENGTH
SAFE, SURE FOOTING
EASILY MAINTAINED
MAXIMUM OPEN AREA
EASILY ADAPTED TO MANY USES
MEETS ENGINEERING REQUIREMENTS



STOCKED & FABRICATED ON THE WEST COAST BY

**BRODHEAD
STEEL
PRODUCTS CO.**

143 South Linden Avenue, South San Francisco, California
Phone: PLaza 6-4850 and JUnO 3-0761

"Blaw-Knox Grating Representatives"

Bogart-Bullock Corporation
6010 South Normandie Ave.
Los Angeles 44, California
Phone: Pleasant 1-6129

S. F. Patterson Company
1717 West Austin Street
Seattle, Washington
Phone: West 2-7208

Norman Rupp Company
103 S. W. Front Avenue
Portland 4, Oregon
Phone: Capitol 8-4311

William Z. Harrison Company
436 Atlas Building
Salt Lake City, Utah
Phone: Elgin 5-1242

Equipment Specialties Co.
171 Vallejo Street
Denver 23, Colorado
Phone: Sherman 4-2737

HOW TO SPECIFY BLAW-KNOX ELECTROFORGED STEEL GRATING

"Grating shall be of one-piece, resistance-welded construction manufactured by the Electroforming Process. Punching, slotting or drilling either bearing or cross bars will not be permitted. Grating is to be designed to sustain a uniformly distributed load of lbs. per square foot. To be painted one coat of black paint in shop (or hot-dip galvanized)."

Special grating having wider spacing of bars than either of the types illustrated below can also be furnished. One type has a clear opening between carrying bars of $2\frac{3}{16}$ " and a load value of approximately 52% of standard load table.

Another type has a clear opening between bars of $1\frac{1}{16}$ " with a load value of 66% of standard load table.

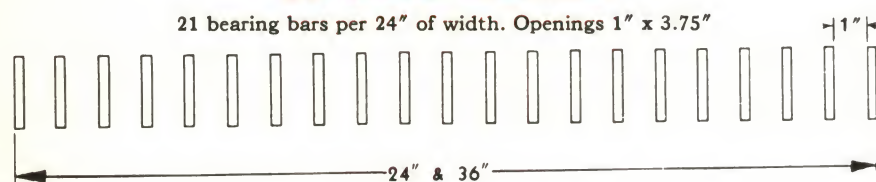
These types of grating should only be used for special purposes such as auxiliary walkways, flywalks, etc., and where women do not walk.

TABLE OF SAFE LOADS

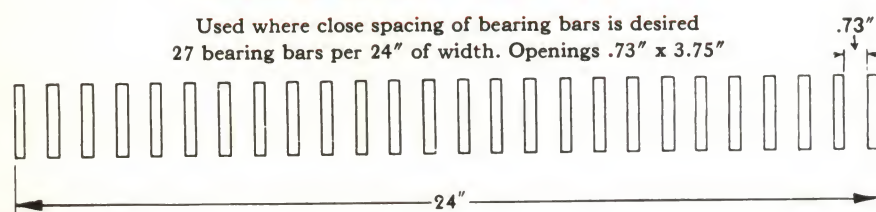
Maximum width of panels 36".
Maximum length 20'0".

Standard cross bar spacing 4" center to center. Spacings of 3", $2\frac{1}{2}$ ", 2" and $1\frac{3}{4}$ " can also be furnished.

STANDARD GRATING



SPECIAL CLOSE MESH GRATING

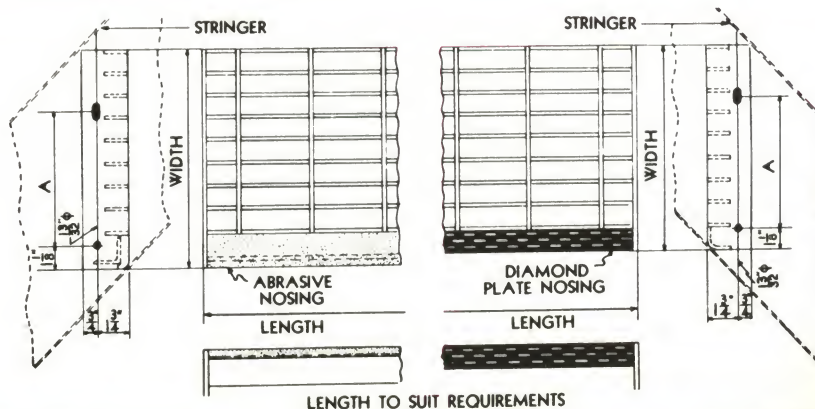


WHEN ORDERING

ALWAYS SPECIFY

- 1 Size of bars and type — standard or special.
- 2 Whether to be painted or galvanized.
- 3 Complete dimensions of area to be covered.
- 4 Direction bearing bars are to run.
- 5 Is clearance to be allowed?

ELECTROFORGED STAIR TREADS



21 Bar Type Only—Bearing Bars: $1\frac{1}{8}$ " Centers
Electroformed 27 Bar ($1\frac{1}{8}$ " c.c. of Bearing Bar)—Multiply by 1.28

Steel—.2 Max. Carbon

BEARING BARS SIZE		2'-0"	2'-6"	3'-0"	3'-6"	4'-0"	4'-6"	5'-0"	5'-6"	6'-0"	6'-6"	7'-0"	8'-0"	9'-0"
$\frac{3}{4}$ " x $\frac{1}{8}$ " Wt. per sq. ft. 4.00 lbs.	U	386	247	172	126	96	76	U—Safe uniform load in pounds per square foot. C—Safe concentrated load in pounds per foot of grating width. D—Deflection in inches. Loads and deflections given in this table are theoretical, and are based on a unit stress of 18,000 psi. Note: Grating for spans to the left of the heavy line in the safe load table have a deflection less than $\frac{1}{4}$ " for uniform loads of 100 lbs. per sq. ft. This is the maximum deflection to afford pedestrian comfort and can be exceeded for other types of load at the discretion of the engineer.						
	D	.095	.151	.216	.295	.374	.486							
$\frac{3}{4}$ " x $\frac{3}{16}$ " Wt. per sq. ft. 5.68 lbs.	C	386	308	258	220	194	171							
	D	.076	.119	.173	.234	.308	.389							
$\frac{3}{4}$ " x $\frac{3}{16}$ " Wt. per sq. ft. 5.68 lbs.	U	578	370	258	188	144	115	109	91	76				
	D	.095	.151	.216	.295	.374	.486							
1 " x $\frac{1}{8}$ " Wt. per sq. ft. 5.15 lbs.	C	578	462	386	331	289	257	275	250	228				
	D	.076	.119	.173	.234	.308	.389							
1 " x $\frac{3}{16}$ " Wt. per sq. ft. 7.32 lbs.	U	1029	659	459	338	257	203	164	135	114				
	D	.072	.111	.159	.219	.288	.366							
$1\frac{1}{4}$ " x $\frac{1}{8}$ " Wt. per sq. ft. 6.20 lbs.	C	1029	824	686	587	514	458	412	375	343				
	D	.057	.090	.129	.176	.231	.293							
$1\frac{1}{4}$ " x $\frac{3}{16}$ " Wt. per sq. ft. 8.97 lbs.	U	1072	686	476	350	268	212	172	142	119	101	87		
	D	.057	.090	.129	.176	.231	.291							
$1\frac{1}{4}$ " x $\frac{3}{16}$ " Wt. per sq. ft. 8.97 lbs.	C	1072	858	716	613	536	477	430	390	358	330	306		
	D	.046	.072	.104	.141	.183	.233							
$1\frac{1}{2}$ " x $\frac{1}{8}$ " Wt. per sq. ft. 7.36 lbs.	U	1608	1028	716	526	403	318	258	213	179	152	131		
	D	.057	.090	.129	.176	.231	.291							
$1\frac{1}{2}$ " x $\frac{3}{16}$ " Wt. per sq. ft. 7.36 lbs.	C	1608	1285	1073	918	803	716	644	585	536	495	459		
	D	.046	.072	.104	.141	.183	.233							
$1\frac{1}{2}$ " x $\frac{1}{8}$ " Wt. per sq. ft. 7.36 lbs.	U	1544	987	686	505	387	306	248	205	172	149	128	96	75
	D	.047	.075	.106	.147	.192	.243							
$1\frac{1}{2}$ " x $\frac{3}{16}$ " Wt. per sq. ft. 11.08 lbs.	C	1544	1235	1029	883	722	687	619	563	515	475	441	386	342
	D	.038	.059	.087	.117	.154	.195							
$1\frac{1}{2}$ " x $\frac{3}{16}$ " Wt. per sq. ft. 11.08 lbs.	U	2321	1485	1031	758	581	458	371	307	260	222	191	145	115
	D	.047	.075	.106	.147	.192	.243							
$1\frac{3}{4}$ " x $\frac{1}{8}$ " Wt. per sq. ft. 12.72 lbs.	C	2321	1856	1547	1325	1159	1031	928	844	773	714	663	581	515
	D	.038	.059	.087	.117	.154	.195							
$1\frac{3}{4}$ " x $\frac{3}{16}$ " Wt. per sq. ft. 12.72 lbs.	U	3151	2016	1401	1029	788	622	505	416	351	299	259	197	155
	D	.042	.064	.092	.126	.165	.208							
2 " x $\frac{1}{8}$ " Wt. per sq. ft. 14.37 lbs.	C	3151	2521	2100	1800	1575	1400	1260	1145	1049	969	899	786	700
	D	.033	.052	.074	.101	.132	.167							
2 " x $\frac{3}{16}$ " Wt. per sq. ft. 14.37 lbs.	U	4116	2633	1829	1344	1029	813	659	546	460	393	339	258	204
	D	.036	.056	.081	.111	.144	.183							
$2\frac{1}{4}$ " x $\frac{1}{8}$ " Wt. per sq. ft. 16.02 lbs.	C	4116	3292	2745	2351	2058	1828	1646	1496	1370	1266	1175	1027	914
	D	.029	.045	.064	.088	.115	.145							
$2\frac{1}{4}$ " x $\frac{3}{16}$ " Wt. per sq. ft. 16.02 lbs.	U	5209	3332	2314	1670	1302	1028	835	689	583	496	428	327	259
	D	.032	.050	.072	.098	.127	.162							
$2\frac{1}{2}$ " x $\frac{1}{8}$ " Wt. per sq. ft. 17.66 lbs.	C	5209	4167	3473	2916	2604	2314	2082	1892	1733	1601	1487	1301	1157
	D	.026	.039	.057	.079	.102	.129							
$2\frac{1}{2}$ " x $\frac{3}{16}$ " Wt. per sq. ft. 17.66 lbs.	U	6432	4115	2858	2099	1609	1271	1029	850	720	613	529	405	320
	D	.028	.044	.064	.088	.116	.145							
$2\frac{1}{2}$ " x $\frac{3}{16}$ " Wt. per sq. ft. 17.66 lbs.	C	6432	5147	4286	3673	3214	2858	2571	2338	2141	1977	1836	1607	1429
	D	.023	.036	.051	.071	.092	.116							

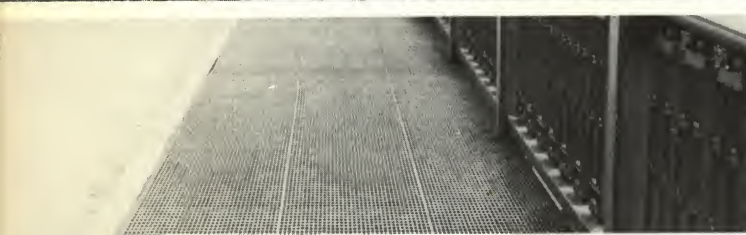
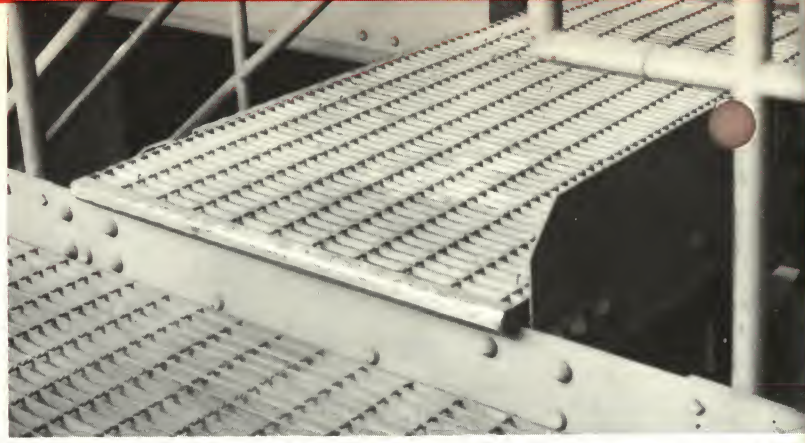
ODD WIDTH PANELS SUPPLIED TO FILL OUT NECESSARY DIMENSIONS

Stand-	21 Bar	20	19	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2
ard	24"	22 $\frac{1}{16}$ "	21 $\frac{5}{8}$ "	20 $\frac{7}{16}$ "	19 $\frac{1}{4}$ "	18 $\frac{1}{16}$ "	16 $\frac{7}{8}$ "	15 $\frac{1}{16}$ "	14 $\frac{1}{2}$ "	13 $\frac{5}{16}$ "	12 $\frac{1}{16}$ "	10 $\frac{7}{8}$ "	9 $\frac{1}{16}$ "	8 $\frac{1}{2}$ "	7 $\frac{3}{16}$ "	6 $\frac{1}{8}$ "	4 $\frac{15}{16}$ "	3 $\frac{3}{4}$ "	2 $\frac{9}{16}$ "	1 $\frac{3}{8}$ "
Close	27 Bar	26	25	24	23	22	21	20	19	18	17	16	15	14	13	12	11	10	9	8
Mesh	24"	23 $\frac{1}{16}$ "	22 $\frac{3}{16}$ "	21 $\frac{1}{4}$ "	20 $\frac{5}{16}$ "	19 $\frac{1}{16}$ "	18 $\frac{1}{2}$ "	17 $\frac{3}{16}$ "	16 $\frac{1}{16}$ "	15 $\frac{3}{4}$ "	14 $\frac{13}{16}$ "	13 $\frac{13}{16}$ "	13"	12 $\frac{1}{8}$ "	11 $\frac{3}{16}$ "	10 $\frac{1}{4}$ "	9 $\frac{3}{8}$ "	8 $\frac{1}{16}$ "	7 $\frac{1}{2}$ "	6 $\frac{5}{8}$ "

STANDARD SIZES AND SPECIFICATIONS OF STAIR TREADS

Abrasive	Diamond Plate	TYPE "J" — 1" x 3/16" BARS		
Width	Width	Min. Length	Suggested Maximum Length	A
6 3/4"	6 1/16"	1'6"	3'0"	2 1/2"
7 15/16"	7 1/4"	1'6"	3'0"	4 1/2"
9 1/8"	8 3/16"	1'6"	3'6"	4 1/2"
10 5/16"	9 5/8"	1'6"	3'6"	7"
11 1/2"	10 13/16"	1'6"	3'6"	7"

Abrasive	Diamond Plate	TYPE "L" — 1¼" x ⅜" BARS		
Width	Width	Min. Length	Suggested Maximum Length	A
7⅝"	7¼"	2'0"	4'0"	4½"
9⅛"	8⅜"	2'0"	4'0"	4½"
10⅜"	9⅝"	2'0"	4'0"	7"
11½"	10⅜"	2'0"	4'6"	7"
12⅞"	12"	2'0"	4'6"	7"



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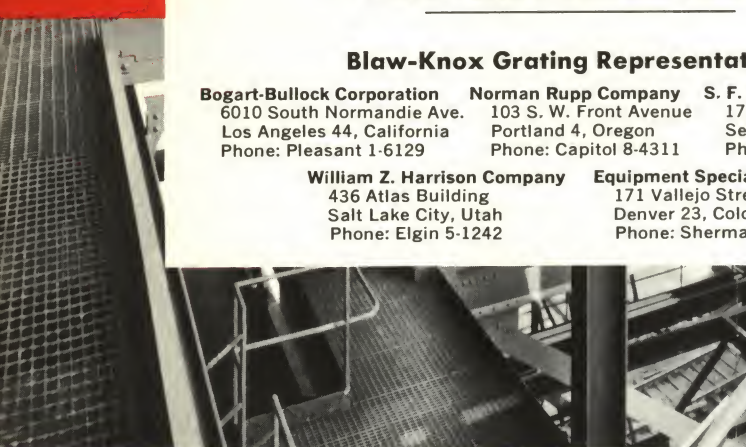
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**STORAGE PLANTS
POWER PLANTS**



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